

**REMARKS**

Claims 1-41 have been examined, with claims 1-13, 15-33, and 35-41 rejected and claims 14 and 34 objected to. Applicant thanks the Examiner for the indication of allowable subject matter in claims 14 and 34.

***Drawings***

The drawings have been objected to because the second page of the drawings should be "PRIOR ART FIGURE 1C" instead of "PRIOR ART FIGURE 1B". Applicant has amended the drawing accordingly.

***Specification***

The disclosure has been objected to because of informalities. The amendments to the specification are believed to overcome this objection.

***Claim Objections***

Claims 1-14, 24, 34, 40, and 41 have been objected to because of informalities. The amendments to the claims are believed to overcome these objections.

With regard to claims 13 (now incorporated into claim 14), 33 (now incorporated into claim 34), and 34, N is a number chose by a system designer, and is a degree of a polynomial defining a first field and a second field. In other words, the value of N is chosen based on specific system requirements and need not be further defined in the claims.

***Claim Rejections - 35 U.S.C. § 102 and 103***

Claims 1-13 and 15-20 have been rejected under 35 U.S.C. § 102(e) as being anticipated by Brown et al. (U.S. Patent No. 6,282,230). Claims 21-33 and 35-41 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Brown et al. in view of Asano.

While not conceding the validity of these rejections, but merely to advance prosecution, Applicant has placed the application in condition for allowance by amending claims 14 and 34 to be in independent form and has correspondingly canceled claims 1-13, 15-33, and 35-41.

***Conclusion***

In view of the above, each of the presently pending claims in this application is believed to be in immediate condition for allowance. Accordingly, the Examiner is respectfully requested to pass this application to issue.

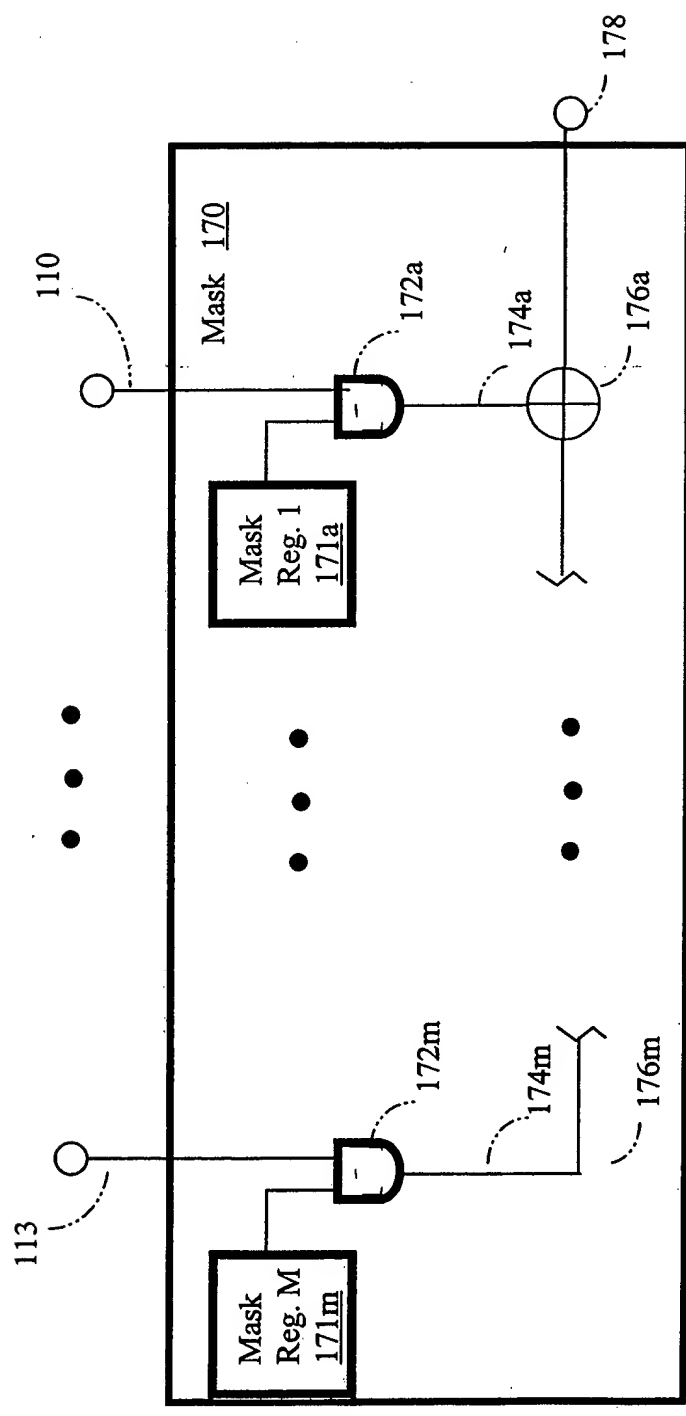
Dated: June 1, 2004

Respectfully submitted,

By *Laura C. Brutman*  
Laura C. Brutman

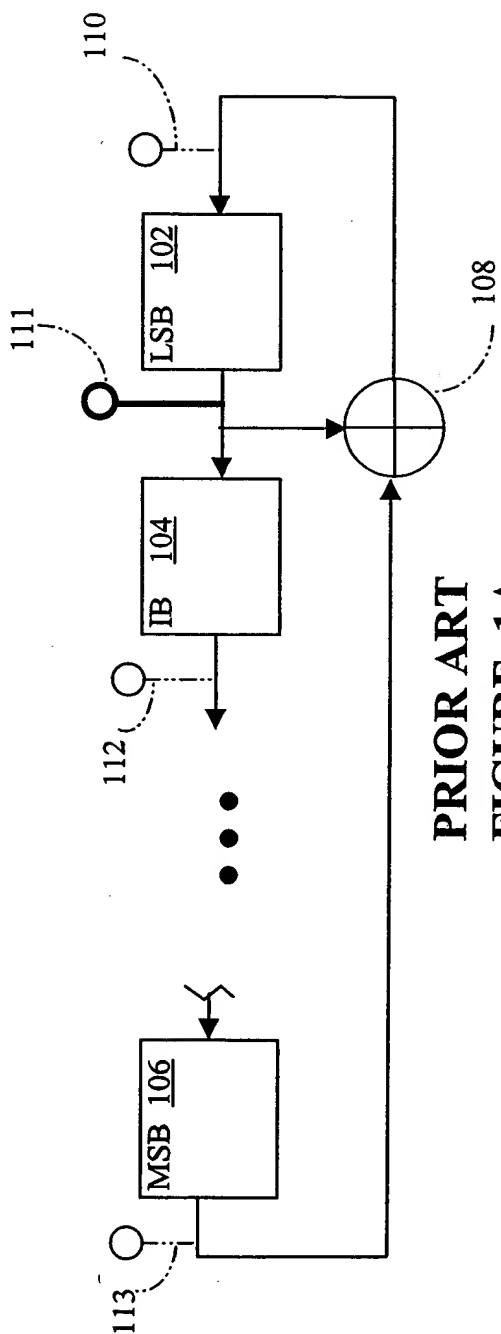
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Attachments



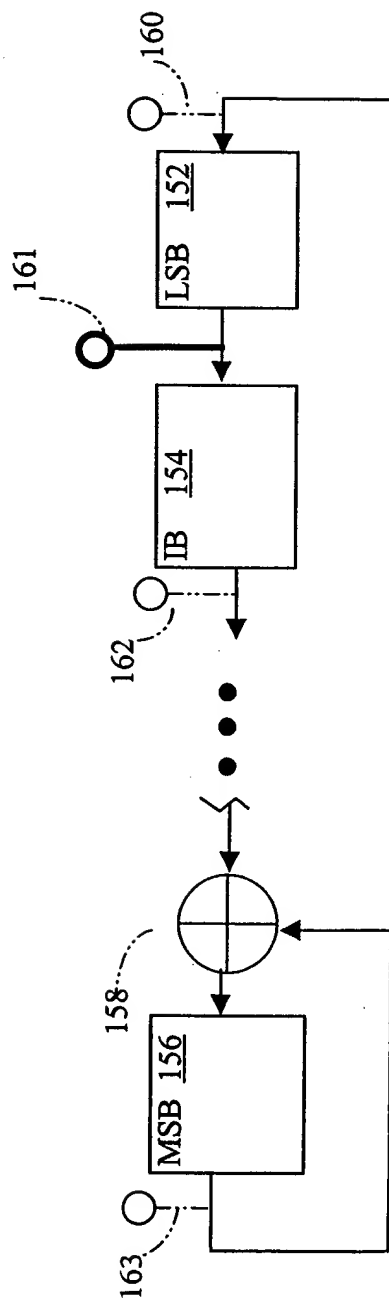
PRIOR ART  
FIGURE 1C

100



PRIOR ART  
 FIGURE 1A

150



PRIOR ART  
 FIGURE 1B

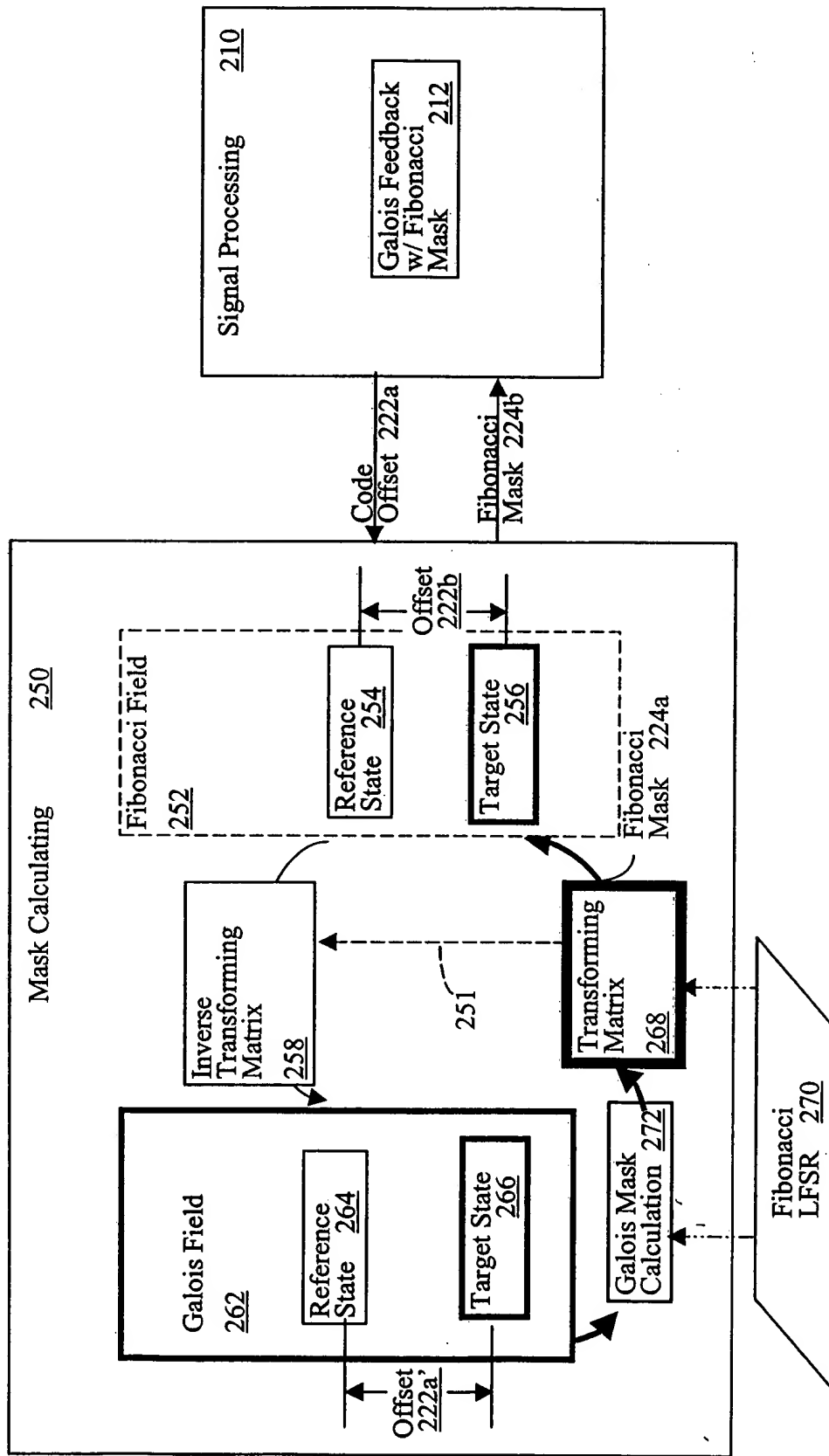


FIGURE 2

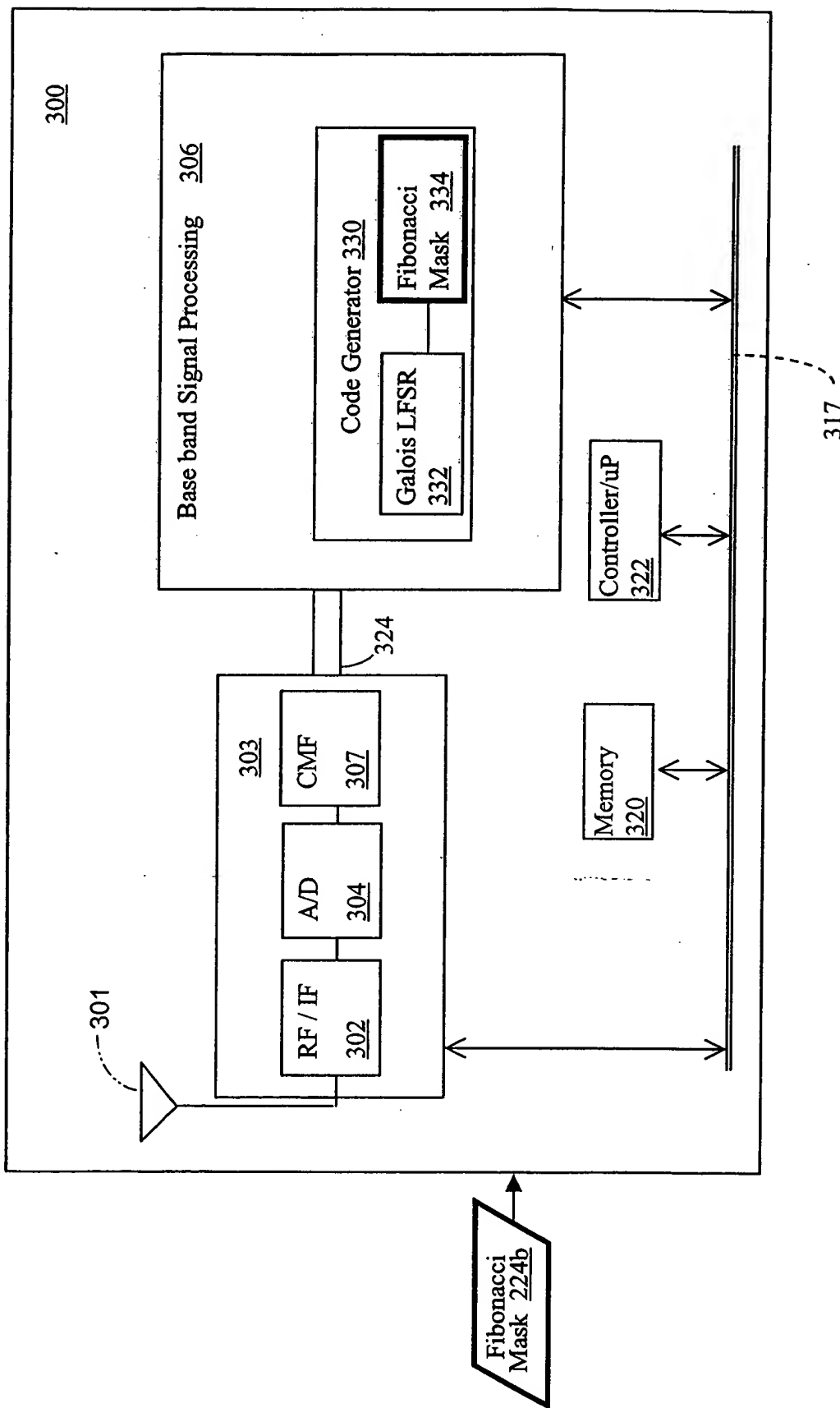


FIGURE 3

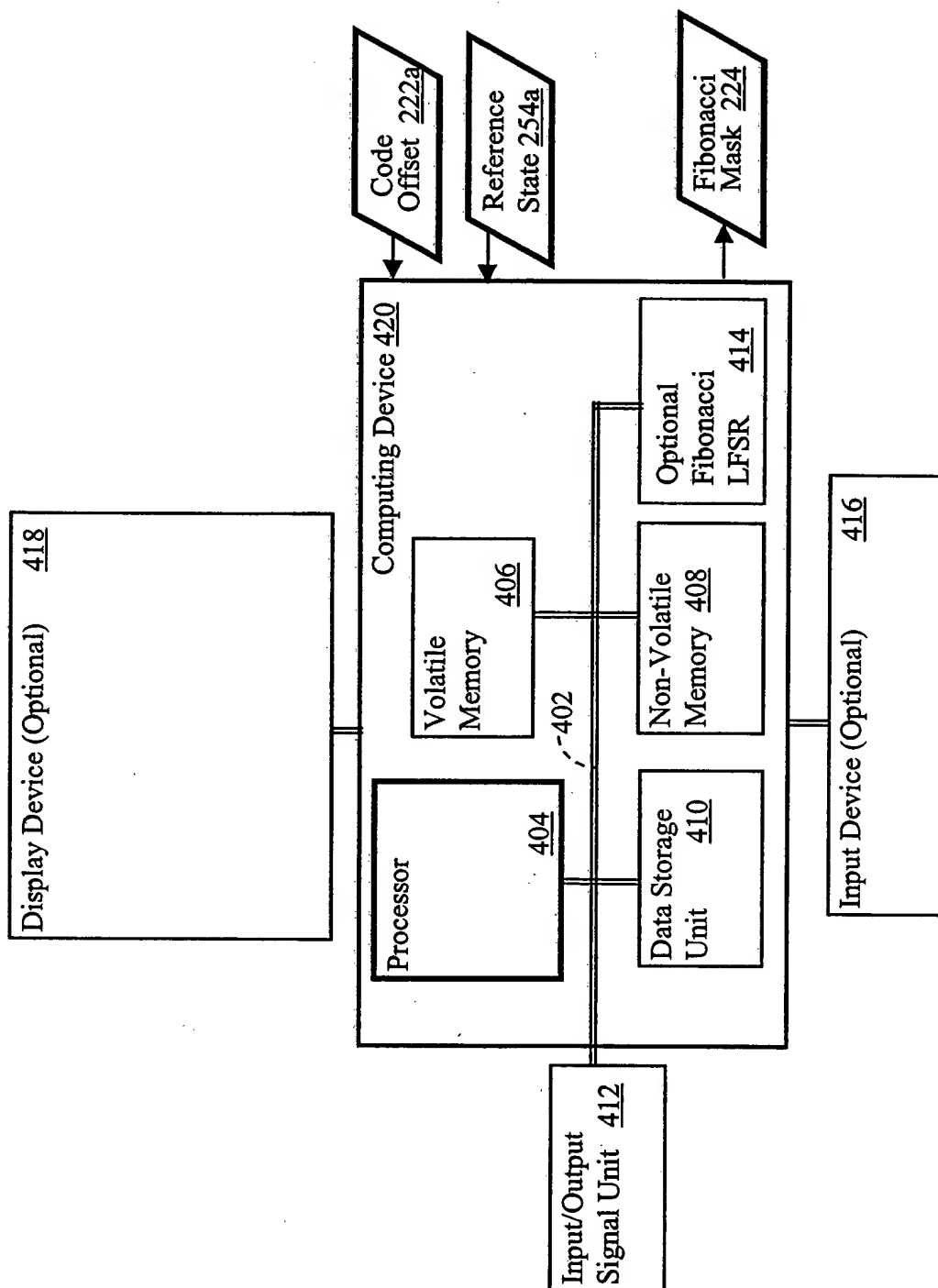
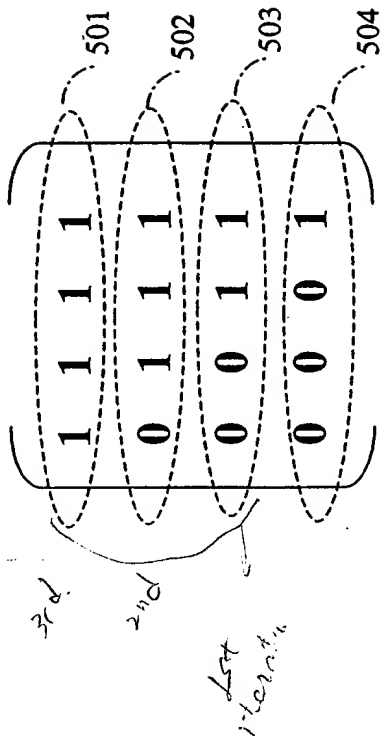


FIGURE 4



500a



**FIGURE 5A**



500b

$$\begin{matrix} \underbrace{\left[ \begin{matrix} 1 & 0 & 1 & 1 \end{matrix} \right]}_{520} & \times & \underbrace{\left( \begin{matrix} \underbrace{\begin{matrix} 0 & 0 & 0 & 1 \end{matrix}}_{511} \\ \underbrace{\begin{matrix} 1 & 0 & 0 & 0 \end{matrix}}_{512} \\ \underbrace{\begin{matrix} 0 & 1 & 0 & 0 \end{matrix}}_{513} \\ \underbrace{\begin{matrix} 0 & 0 & 1 & 0 \end{matrix}}_{514} \end{matrix} \right)}_{518} & = & \underbrace{\left[ \begin{matrix} 0 & 1 & 1 & 1 \end{matrix} \right]}_{530} \end{matrix}$$

**FIGURE 5B**



6000

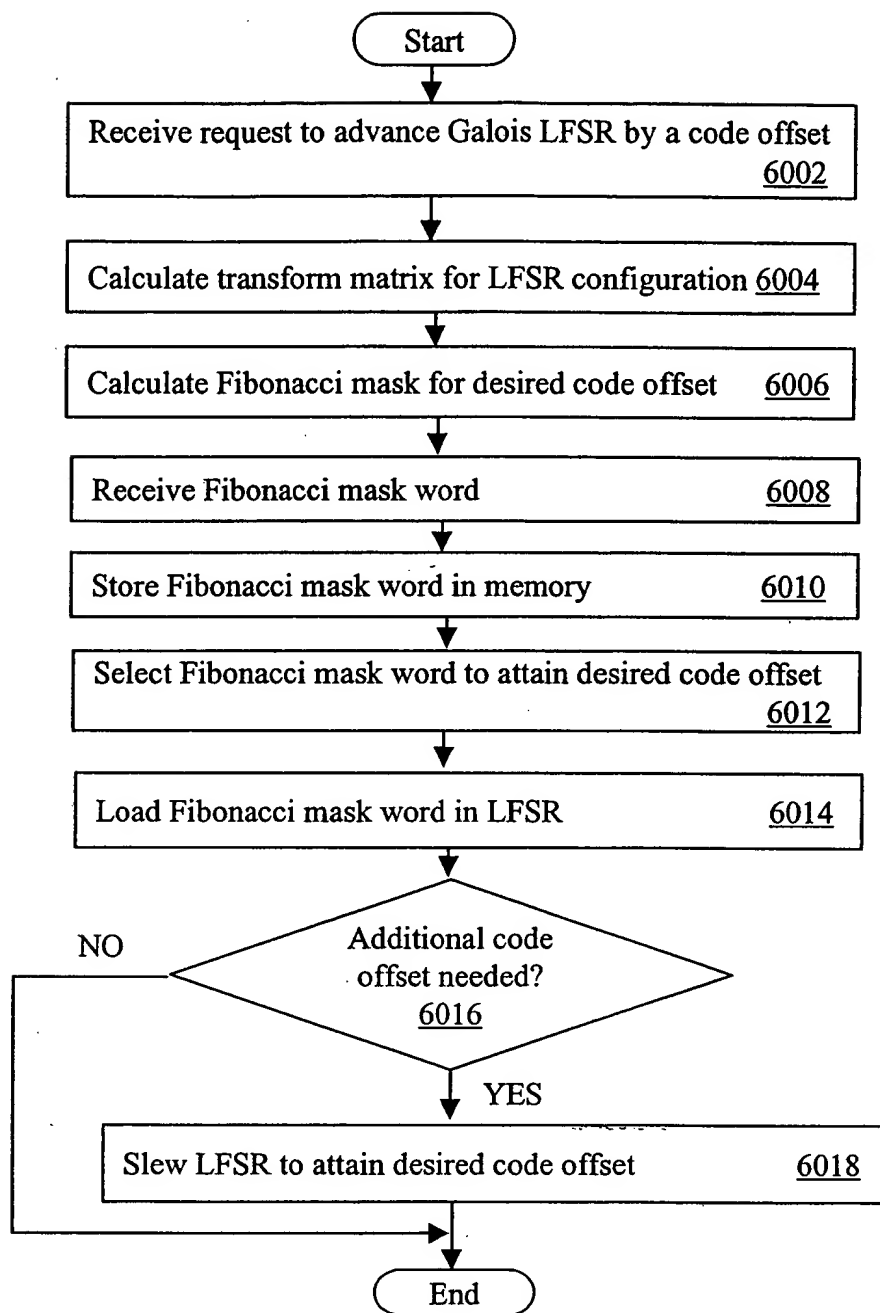
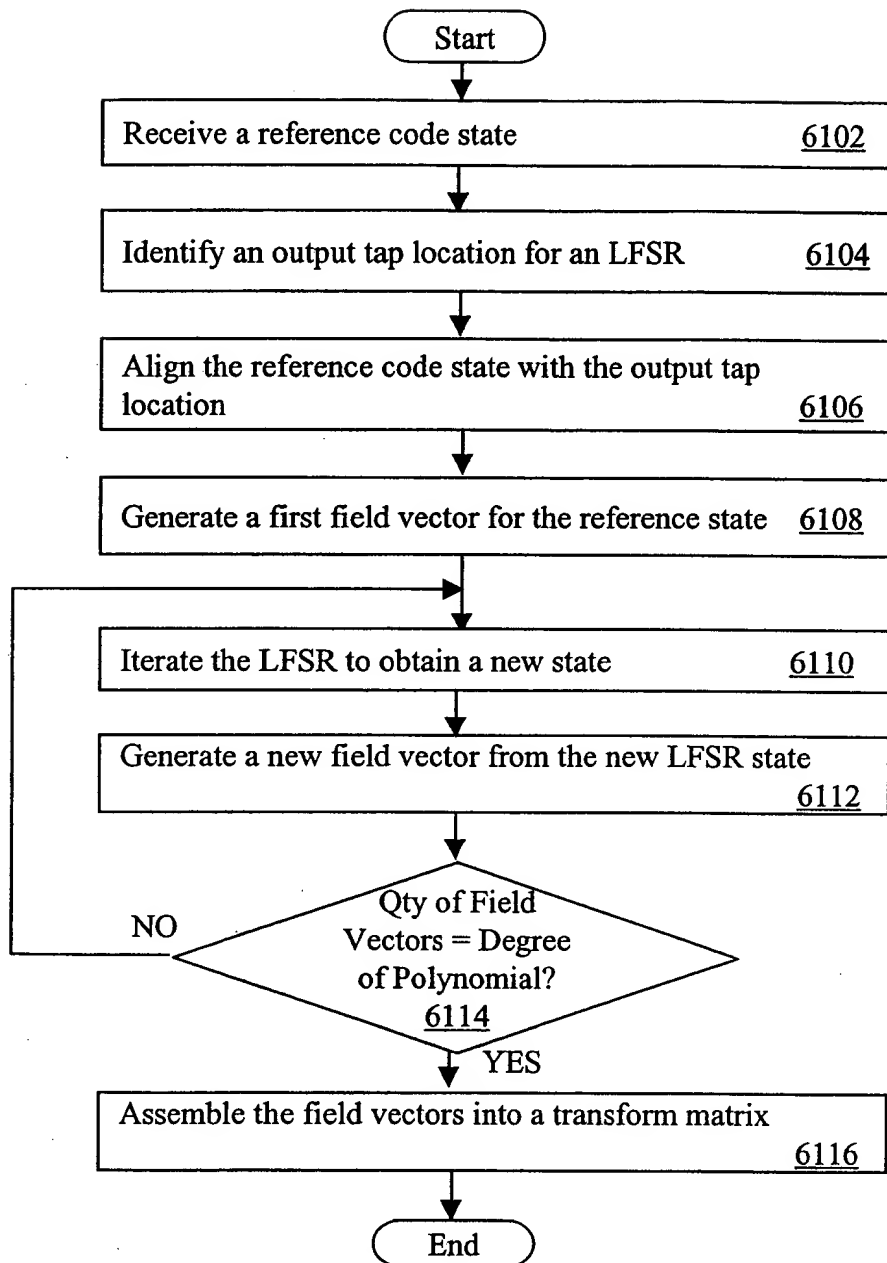


FIGURE 6A



6100



**FIGURE 6B**

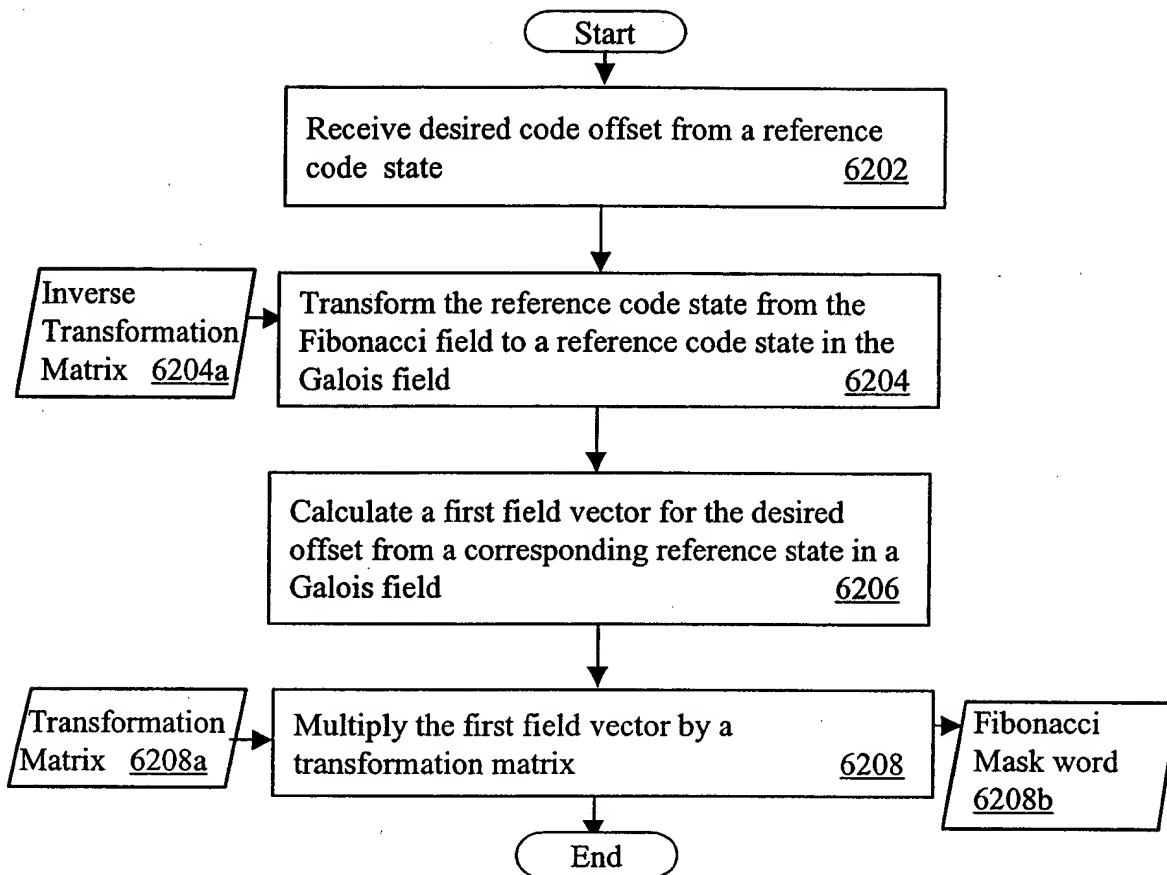


FIGURE 6C